

APPENDIX G

Summary of Direct Radiation Monitoring Data

TABLE G-1
Summary of 2007 Quarterly Averages of Off-Site TLD Measurements
(mR \pm 2 SD/quarter)

<i>Location Number^a</i>	<i>1st Quarter</i>	<i>2nd Quarter</i>	<i>3rd Quarter</i>	<i>4th Quarter</i>	<i>Location Average</i>
DFTLD01	14 \pm 3	21 \pm 5	21 \pm 4	17 \pm 8	18 \pm 5
DFTLD02	14 \pm 3	22 \pm 5	21 \pm 4	16 \pm 8	18 \pm 5
DFTLD03	12 \pm 3	19 \pm 5	17 \pm 4	14 \pm 8	16 \pm 5
DFTLD04	13 \pm 3	21 \pm 5	20 \pm 4	18 \pm 8	18 \pm 5
DFTLD05	14 \pm 3	22 \pm 5	19 \pm 4	16 \pm 8	18 \pm 5
DFTLD06	14 \pm 3	21 \pm 5	20 \pm 4	15 \pm 8	17 \pm 5
DFTLD07	11 \pm 3	18 \pm 4	16 \pm 4	16 \pm 8	15 \pm 5
DFTLD08	14 \pm 3	23 \pm 5	21 \pm 4	17 \pm 8	19 \pm 6
DFTLD09	14 \pm 3	22 \pm 5	20 \pm 4	19 \pm 9	19 \pm 6
DFTLD10	13 \pm 3	21 \pm 5	19 \pm 4	19 \pm 9	18 \pm 6
DFTLD11	11 \pm 3	18 \pm 4	17 \pm 4	14 \pm 8	15 \pm 5
DFTLD12	14 \pm 3	21 \pm 5	20 \pm 4	19 \pm 9	18 \pm 6
DFTLD13	14 \pm 3	24 \pm 5	21 \pm 5	22 \pm 9	20 \pm 6
DFTLD14	13 \pm 3	20 \pm 5	22 \pm 5	20 \pm 9	19 \pm 4
DFTLD15	12 \pm 3	20 \pm 5	20 \pm 4	15 \pm 8	17 \pm 5
DFTLD16	14 \pm 3	21 \pm 5	19 \pm 4	17 \pm 8	18 \pm 5
DFTLD20	11 \pm 3	19 \pm 5	16 \pm 4	11 \pm 7	14 \pm 5
DFTLD21	14 \pm 3	23 \pm 5	20 \pm 4	14 \pm 8	18 \pm 5
DFTLD22	14 \pm 3	22 \pm 5	26 \pm 5	16 \pm 8	19 \pm 6
DFTLD23	15 \pm 3	20 \pm 5	20 \pm 4	14 \pm 8	17 \pm 5

^a Off-site locations are shown on Figures A-12, A-13, and A-14.

Conversion factor: Milliroentgen (mR) units are used to report exposure rates in air. To convert mR to mrem (dose to humans), a conversion factor of 1.03 must be applied. For example, a reported exposure rate of 18.1 mR/quarter would be equivalent to 18.6 mrem/quarter (based upon dose-equivalent phantom calibration using cesium-137).

TABLE G-2
Summary of 2007 Quarterly Averages of On-Site TLD Measurements
(mR \pm 2 SD/quarter)

<i>Location Number^a</i>	<i>1st Quarter</i>	<i>2nd Quarter</i>	<i>3rd Quarter</i>	<i>4th Quarter</i>	<i>Location Average</i>
DNTLD19	17 \pm 4	27 \pm 6	24 \pm 5	16 \pm 8	21 \pm 6
DNTLD24	394 \pm 77	357 \pm 70	404 \pm 79	425 \pm 86	395 \pm 78
DNTLD25	17 \pm 4	24 \pm 5	23 \pm 5	19 \pm 9	21 \pm 6
DNTLD26	19 \pm 4	26 \pm 6	23 \pm 5	23 \pm 9	23 \pm 6
DNTLD27	15 \pm 3	22 \pm 5	21 \pm 5	23 \pm 9	20 \pm 6
DNTLD28	20 \pm 4	38 \pm 8	27 \pm 6	17 \pm 8	25 \pm 7
DNTLD29	17 \pm 4	24 \pm 6	21 \pm 5	23 \pm 9	21 \pm 6
DNTLD30	18 \pm 4	26 \pm 6	23 \pm 5	18 \pm 8	21 \pm 6
DNTLD33	37 \pm 7	54 \pm 11	42 \pm 8	23 \pm 9	39 \pm 9
DNTLD35	113 \pm 22	1,298 \pm 255	263 \pm 52	23 \pm 9	424 \pm 130
DNTLD36	136 \pm 27	458 \pm 90	123 \pm 24	39 \pm 12	189 \pm 49
DNTLD38	30 \pm 6	37 \pm 8	34 \pm 7	35 \pm 11	34 \pm 8
DNTLD39	45 \pm 9	56 \pm 11	51 \pm 10	47 \pm 13	49 \pm 11
DNTLD40	99 \pm 19	108 \pm 21	96 \pm 19	94 \pm 22	99 \pm 20
DNTLD43	48 \pm 10	69 \pm 14	50 \pm 10	14 \pm 8	45 \pm 10

^a On-site locations are shown on Figure A-11.

Conversion factor: Milliroentgen (mR) units are used to report exposure rates in air. To convert mR to mrem (dose to humans), a conversion factor of 1.03 must be applied. For example, a reported exposure rate of 18.1 mR/quarter would be equivalent to 18.6 mrem/quarter (based upon dose-equivalent phantom calibration using cesium-137).

TABLE G-3
Third-Quarter 2007 TLD Results and Instantaneous Exposure Rate Readings With a High-Pressure Ion Chamber (HPIC) at Each Monitoring Location

<i>Location Number</i>	<i>3rd Quarter TLD Result ($\mu\text{R}/\text{hr}$)</i>	<i>2007 HPIC Results ($\mu\text{R}/\text{hr}$)</i>	<i>Location Number</i>	<i>3rd Quarter TLD Result ($\mu\text{R}/\text{hr}$)</i>	<i>2007 HPIC Results ($\mu\text{R}/\text{hr}$)</i>
DFTLD01	9.4	10.5	DFTLD22	11.8	10.1
DFTLD02	9.4	10.2	DFTLD23	9.0	9.3
DFTLD03	7.6	9.1	DNTLD19	10.8	11.4
DFTLD04	8.9	9.1	DNTLD24	182.8	211.8
DFTLD05	8.8	9.4	DNTLD25	10.6	12.2
DFTLD06	9.0	9.6	DNTLD26	10.5	11.0
DFTLD07	7.4	9.0	DNTLD27	9.6	10.3
DFTLD08	9.5	9.1	DNTLD28	12.3	13.8
DFTLD09	9.0	9.4	DNTLD29	9.6	11.1
DFTLD10	8.5	9.6	DNTLD30	10.5	10.5
DFTLD11	7.8	8.9	DNTLD33	19.0	14.9
DFTLD12	8.9	10.3	DNTLD35	119.1	69.3
DFTLD13	9.6	9.7	DNTLD36	55.8	59.1
DFTLD14	10.1	10.0	DNTLD38	15.6	21.6
DFTLD15	9.1	9.3	DNTLD39	23.0	27.3
DFTLD16	8.6	9.7	DNTLD40	43.5	51.8
DFTLD20	7.3	8.1	DNTLD43	22.4	15.2
DFTLD21	9.0	10.1			

Note: DF* represents off-site TLD locations; DN* represents on-site TLD locations.

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